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APPLICATION NO. FILING I		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 5446	
10/613,574	10/613,574 07/03/2003		Takeshi Ootsuka	P/2850-79		
2352	7590	10/13/2005		EXAMINER		
T		ER GERB & SOFF HE AMERICAS	MACARTHUR, SYLVIA			
NEW YORI				ART UNIT	PAPER NUMBER	
	•			1763	•	

DATE MAILED: 10/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)					
	10/613,574	•	OOTSUKA ET AL.						
Office Action	Examiner		Art Unit						
		Sylvia R. Mad	cArthur	1763					
The MAILING DAT Period for Reply	E of this communication app	pears on the co	over sheet with the co	orrespondence add	dress				
<ul> <li>WHICHEVER IS LONGE</li> <li>Extensions of time may be available after SIX (6) MONTHS from the</li> <li>If NO period for reply is specified</li> <li>Failure to reply within the set or</li> </ul>	TORY PERIOD FOR REPLY ER, FROM THE MAILING DA able under the provisions of 37 CFR 1.13 mailing date of this communication. d above, the maximum statutory period w extended period for reply will, by statute, later than three months after the mailing See 37 CFR 1.704(b).	ATE OF THIS 36(a). In no event, will apply and will ex , cause the applicat	COMMUNICATION however, may a reply be time opire SIX (6) MONTHS from to become ABANDONED	I.  lely filed  the mailing date of this co  O (35 U.S.C. § 133).					
Status									
1) Responsive to com	nmunication(s) filed on <u>08 Au</u>	uaust 2005.							
2a) This action is FINA	• • • • • • • • • • • • • • • • • • • •	action is non	-final.						
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Disposition of Claims									
4)⊠ Claim(s) <u>1-7</u> is/are	pending in the application.								
4a) Of the above cl	4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/s	Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-7</u> is/are	Claim(s) 1-7 is/are rejected.								
7) Claim(s) is/s	are objected to.								
8) Claim(s) are	Claim(s) are subject to restriction and/or election requirement.								
Application Papers									
9) The specification is	objected to by the Examine	ır							
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 05, tuly 2003 is/are: a) ∞ accepted or b) objected to by the Examiner.									
10)⊠ The drawing(s) filed on <u>05 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
•	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
in) ine oath of declara	alion is objected to by the Ex	ammer. Note	the attached Office	ACTION OF TOTAL PT	O-152.				
Priority under 35 U.S.C. § 1	119								
a) All b) Some  1. Certified cop  2. Certified cop  3. Copies of the application for	* c) None of:  oies of the priority documents  oies of the priority documents  oies of the priority documents  e certified copies of the prior  from the International Bureau  tailed Office action for a list	s have been r s have been r rity document u (PCT Rule 1	eceived. eceived in Applications have been receive 7.2(a)).	on No ed in this National S	Stage				
Attachment(s)  1) Notice of References Cited (F	PTO-802\	41	Interview Summer	(PTO-413)					
2) D Notice of Draftsperson's Pate	nt Drawing Review (PTO-948) nent(s) (PTO-1449 or PTO/SB/08)	4) 5) 6)	Interview Summary ( Paper No(s)/Mail Da  Notice of Informal Pa  Other:	ite	-152)				

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## **DETAILED ACTION**

## **Double Patenting**

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 2. Claims 1-7 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 6,8,72,908. Although the conflicting claims are not identical, they are not patentably distinct from each other because the patent claims a susceptor with built-in electrode and manufacturing method therefor. The patent claims a susceptor substrate formed of an aluminum nitride sintered body, an internal electrode formed of an aluminum nitride and tungsten composite body, a power supply terminal provided on the susceptor substrate and supplying power to the internal electrode. In comparison the present invention claims a susceptor base member made of aluminum nitride group sintered member and power supplying terminal made of conductive aluminum nitride tantalum nitride composite sintered member.
- 3. Claims 1-7 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-9 of copending Application No. 2003/0071260. Although the conflicting claims are not identical, they are not

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patentably distinct from each other because the co-pending application claims a susceptor substrate formed from an aluminum nitride based sintered body, an internal electrode formed from an aluminum nitride and tungsten composite sintered body or an aluminum nitride sintered body is built into the substrate, a power supply terminal is provided on the susceptor and supplies power to the internal electrode. In comparison the present invention claims a susceptor base member made of aluminum nitride group sintered member and power supplying terminal made of conductive aluminum nitride tantalum nitride composite sintered member.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

4. Claims 1-7 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-5 of copending Application No. 2004/0011287.

Although the conflicting claims are not identical, they are not patentably distinct from each other because the co-pending application claims a susceptor base body formed from an aluminum nitride based sintered body, an internal electrode is built into the susceptor, a power supply terminal is provided in the susceptor and supplies power to the internal electrode. In comparison the present invention claims a susceptor base member made of aluminum nitride group sintered member and power supplying terminal made of conductive aluminum nitride tantalum nitride composite sintered member.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

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5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1-3 and 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Inazumachi et al (US 2002/0006678).

Inazumachi et al teaches a susceptor and manufacturing method therfor comprising a built-in electrode type susceptor.

Re Claim 1: The apparatus comprising a susceptor base member 25 [0027] which is made of an aluminum-nitride-group-sintered-member

on one of which surface a plate sample is mounted;

an inner electrode 22 which is built in the susceptor member [0060]; and

a power supplying terminal 4, which is disposed in the susceptor base member so as to be attached to the inner electrode, wherein

the power supplying terminal is made of a conductive aluminum-nitride-tantalum-nitride-composite-sintered-member [0068].

Re Claim 2: An electrode-built-in susceptor according to Claim 1 wherein the susceptor base member is formed by a mounting plate which is made of a) an aluminum-nitride-group-sintered-member on one of which main surface a plate sample is mounted and a supporting plate 3 which is made of a) an aluminum-nitride-group-sintered-member which is

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attached to the mounting plate unitarily, [0090]

Re Claim 3: An electrode-built-in susceptor according to Claim 1 wherein the inner electrode is made of a conductive aluminum-nitride-tantalum-nitride-composite-sintered-member or a conductive aluminum-nitride-tungsten-composite-sintered-member, see [0060], claim of patent.

Re Claim 6: Method for manufacturing an electrode-built-in susceptor comprising the steps of:

making a mounting plate for mounting a plate sample thereon and a supporting plate for supporting a mounting plate by an aluminum-nitride-group-sintered-member; forming a through hole on the supporting plate;

inserting a power supplying terminal which is made of a conductive aluminum-nitridetantalum-nitride-composite-sintered-member in the through hole so as to fix the power supplying terminal therethrough;

applying a member which contains a conductive powder on a main surface of the supporting plate such that the conductive powder contacts the power supplying terminal; attaching the mounting plate to the supporting plate via the member which contains the conductive powder;

heating the mounting plate and the supporting plate under a compressed-atmosphere condition so as to form an inner electrode between the supporting plate and the mounting plate unitarily, see [0077] – [0143].

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sylvia R. MacArthur whose telephone number is 571-272-1438. The examiner can normally be reached on M-F during the core hours of 9 a.m. and 3 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571-272-1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sylvia R MacArthur Patent Examiner Art Unit 1763

October 7, 2005